***COMPLETE IN NOTEBOOK! COPY ALL FIGURES!***

CW34/HW34: A&P of Squares and Rectangles

**Geometry**

**READ ALL DIRECTIONS! Failure to show** ALL WORK **and follow** all directions COMPLETELY **will result in LaSalle.**

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| 1. A rectangular window has a perimeter of 1500cm. One side measures 500cm. What are the measures of the remaining three sides? Explain how you knew. | 2. A rectangular piece of cardboard has a length of 16 inches and an area of 192 square inches. What is the width of the cardboard? Explain how you determined the width. |
| 3. If the perimeter of a rectangle is 25 inches and the length is 8 inches. Find the width of the rectangle. | 4. If the area of a rectangle is 365.2 square meters, and it’s length is 22 meters. Find the width of the rectangle. |
| 5. In the square to the right, 1 ft by 1 ft corners have been cut out.  (a) Find the perimeter of the shape. Show your work | (b) Find the area of the remaining figure.  3  1 |
| 8. A room is 15.5 feet by 10 feet long.   1. If carpet pieces are 1-foot squares, how many square feet of carpet is needed to cover the entire room? 2. If carpet costs $2.25 per square foot. How much does it cost to carpet the room? | |
| 9. Copy the figure to the right into your notebook.   a) What do the tick marks mean?b) Determine the area of the figurec) Find the perimeter of the figure below: | |
| 11. If the area of a square is 36 in2, what is its perimeter? (a) What information do you need to find the perimeter? (b) How can you figure that out from the area? | 12. Linoleum floor tiles are each 1-foot square. What is the minimum number of these tiles needed to tile the entire floor of a 12-foot-by-14-foot rectangular kitchen and a 12-foot-by-4-foot rectangular hallway? |
| 13. (a) What is the area of the rectangle below? Leave your answer in terms of x.  (b) What is the perimeter? Leave your answer in terms of x. | 14. (a) What is the area of the rectangle below leave your answer in terms of x.  (b) What is the perimeter? Leave your answer in terms of x. |
| 15. If a rectangle has a width of 24 feet and a perimeter of 120 feet, what is its area? | 16. If a rectangle has a length of 32 meters, and an area of 384 square meters, what is the rectangle’s perimeter? |
| 17. A 6ft by 8ft rectangular floor is to be covered with tiles. In each of the four corners will be placed one patterned 2ft by 2ft tile. The remaining part of the floor is to be covered with solid white 1ft by 1ft tiles. How many of the solid white tiles will be needed to cover the remaining portion of the floor? | 18. If a rectangle has a width of 24 feet and a perimeter of 120 feet, what is its area? |